

REMARKS

Claims 1-21 are pending in this application. By this Amendment, claims 1, 8 and 11 are amended for clarity (and are unrelated to issues of patentability).

Entry of this Amendment is proper under 37 C.F.R. §1.116 because the amendments: a) place the application in condition for allowance for the reasons set forth below; b) do not raise any new reasons that require further search and/or consideration; and/or c) place the application in better form for an appeal, should an appeal be necessary. More specifically, the above amendments are merely for clarity and do not raise any new issues. Entry is proper under 37 C.F.R. §1.116.

The Office Action rejects claims 1, 8, 14 and 18 under 35 U.S.C. §112, first paragraph, as failing to comply with the enablement requirement. The rejection is respectfully traversed. The Office Action generally asserts that one skilled in the art would not have been able to make and/or use specifically claimed features. Based on the statement on page 5, lines 9-11, applicant believes that the claim language in question corresponds to the claimed determining module that determines whether a reply to the ICMP ping pack came from the DHCP client requesting the IP address allocation or from another DHCP client. In the sentence bridging pages 2 and 3 of the Office Action, the Office Action states that the specification does describe the claimed features, but then asserts that there is no description of how this module carries the determination process such that one can make or use the invention.

Applicant respectfully submits that one skilled in the art would have been able to make and/or use the claimed determining module based on the present specification and claims. As

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one example, applicant respectfully submits that at least FIG. 4 and paragraphs [46]-[49] of the present specification correspond to the features relating to the determining module. One skilled in the art would know that Internet Control Message Protocol (ICMP) is part of a TCP/IP standard. For example, please see RFC 792 "Internet Control Message Protocol (ICMP)." Applicant respectfully submits that based on the well-known ICMP being part of a TCP/IP standard, one skilled in the art would clearly know how to make and/or use the claimed determining module as recited in independent claim 1 (as well as the features in the other independent claims) based on the present specification. Stated differently, one skilled in the art would have known how to make and/or use a determining module that is capable of receiving a reply to an ICMP ping packet and determining features of the received message (based on understanding of ICMP messages, for example).

The Office Action (on at least page 2) questions whether a reply to a ping may be received from the same client that issues a request for an IP address allocation. See paragraph [46], last three lines. Applicant also submits that this question was answered in the previous response on page 9, lines 4-5.

The Office Action (on page 3, lines 4-15) addresses the first full paragraph on page 9 of applicant's previous response. In view of the comments in the current Office Action, applicant would like to clarify the previously made comments. Applicant submits that the present specification clearly describes features such as shown in FIG. 4. One skilled in the art would have known how to implement this methodology from reading the present specification. As one example, one skill in the art would understand the technology of ICMP messages and based on

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the written description, would have known how to make and/or use the claimed features. For at least these reasons, applicant respectfully submits that the specification adequately provides an enabling description to one skilled in the art in order to make and/or use the features of the independent claims (and the corresponding dependent claims). Withdrawal of the rejection is respectfully requested.

The Office Action rejects claims 1-21 under 35 U.S.C. §102(b) over “Join server technical help: Chapter 5 Server/Security Parameter,” technical manual from UC Davis Information Resources Unix Help website, November 11, 1996 (hereafter JOIN). The rejection is respectfully traversed with respect to the pending claims.

Independent claim 1 recites a determining module that determines whether a reply to the ICMP ping packet came from the DHCP client requesting the IP address allocation or from another DHCP client. Independent claim 1 also recites a first operation module that conducts a DHCP procedure using the registered relevant event information if the reply is from the DHCP client requesting the IP address allocation, and that changes the registered relevant event information through the ICMP module and issues a new ICMP ping packet if the reply is from the another DHCP client.

JOIN does not teach or suggest at least these features of independent claim 1. More specifically, the Office Action appears to rely on “BOOTP Client Lease Extension” (page 6) for features relating to a reply to the ICMP ping packet being received from the DHCP packet requesting an IP address allocation. The Office Action also appears to rely on “Ping BOOTP Client” and “Ping Timeout” (page 8) for features relating to a reply to the ICMP ping packet

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being from another DHCP client. However, these sections do not relate to both a reply from the DHCP client and/or a reply from the another DHCP client. In other words, JOIN does not distinguish between a DHCP client and another DHCP client and perform different operations based on the different clients. Additionally, the Office Action's comments on page 4 do not discuss conducting a DHCP procedure using registered relevant event information or changing the registered relevant event information (based on the reply).

Accordingly, JOIN does not teach or suggest a first operation module that conducts a DHCP procedure using the registered relevant event information if the reply is from the DHCP client requesting the IP address allocation, and that changes the registered relevant event information through the ICMP module and issues a new ICMP ping packet if the reply is from the another DHCP client. For at least these reasons, independent claim 1 defines patentable subject matter.

Independent claim 8 recites conducting a DHCP procedure using the registered relevant event information and erasing the registered relevant event information from the DHCP ping entry when a reply to the ICMP ping packet is received from the DHCP client requesting the IP address allocation. Independent claim 8 also recites changing the relevant event information registered in the DHCP ping entry and issuing a new ICMP ping packet when a reply to the ICMP ping packet is received from another DHCP client. For at least similar reasons as set forth above, JOIN does not teach or suggest at least these features of independent claim 8. Thus, independent claim 8 defines patentable subject matter.

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Independent claim 14 recites a determining module that determines whether a reply to the issued ping packet came from a first client that requested the IP address allocation or from a second client other than the first client. Independent claim 14 also recites a first operation module that allocates an IP address to the first client if the first client is determined to have sent the reply. For at least similar reasons as set forth above, JOIN does not teach or suggest at least these features of independent claim 14. Thus, independent claim 14 defines patentable subject matter.

Independent claim 18 recites determining whether a reply to the issued ping packet came from a first client that requested the IP address allocation or from a second client other than the first client. Independent claim 18 also recites allocating the IP address to the first client if the first client is determined to have sent the reply. For at least similar reasons as set forth above, JOIN does not teach or suggest at least these features of independent claim 18. Thus, independent claim 18 defines patentable subject matter.

For at least the reasons set forth above, each of independent claims 1, 8, 14 and 18 define patentable subject matter. Each of the dependent claims depends from one of the independent claims and therefore defines patentable subject matter at least for this reason. In addition, the dependent claims recite features that further and independently distinguish over the applied references. For example, dependent claim 15 recites that the first operation module discards the IP address allocation request if the second client is determined to have sent the reply. See also dependent claim 19. For at least similar reasons as set forth above, JOIN does not teach or suggest discarding the IP address allocation request if the second client is determined to have

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sent the reply. Accordingly, dependent claims 15 and 19 define patentable subject matter at least for these additional reasons.

CONCLUSION

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of claims 1-21 are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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